

This listing of claims will replace all prior versions, and listings, of claims in the application:

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Listing of Claims:

1. (Currently Amended): A perpendicular magnetic head, comprising:
 - a first magnetic pole having a portion thereof that is exposed at an air bearing surface (ABS) of the magnetic head;
 - a second magnetic pole including a pole tip thereof that is exposed at said ABS;
 - a heating element;
 - an induction coil structure that is disposed between said first magnetic pole and said second magnetic pole, and wherein said induction coil structure includes a plurality of coil turns and an insulation layer that is disposed upon said coil turns; and
 - wherein said heating element is disposed between said insulation layer and said pole tip.
 - ~~wherein said heating element is disposed between said induction coil structure and said pole tip.~~

2. (cancelled)

3. (original): A perpendicular magnetic head as described in claim 1 wherein said second magnetic pole includes a shaping layer that is disposed in magnetic flux communication with said first magnetic pole, and a probe layer which includes said pole tip, wherein said probe layer is disposed in magnetic flux communication with said shaping layer.

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